

U.S. Serial No. 10/714,790
Response to Office Action mailed May 18, 2004

Page 7 of 9

REMARKS

As suggested by the examiner, the specification has been amended to identify the parent application 09/603,025.

Additionally, applicants amended the specification rather than amending the drawing as suggested by the examiner.

The Office Action states that the pending claims are rejected under 35 U.S.C. §103(a) as being obvious and, therefore, unpatentable over Bockley in view of Kosmatka, and Arit. After careful consideration of the present and earlier Office Actions, and after a detailed review of the cited references, Applicants respectfully submit that the examiner has failed to make a prima facie case of obviousness for at least the following reasons.

The present invention is directed to incandescent lamps. It is well understood that incandescent lamps operate on significantly different principles and at significantly different temperatures and wavelengths than arc discharge lamps. Arit discloses a metal-halide high-pressure arc discharge lamp. Arit is directed to decreasing startup time by using a special power supply along with doped quartz and/or reflective end coats to trap heat within the arc tube. Arit is directed to an arrangement that reduces the startup time of the lamp. The arrangement in Arit has no impact on steady state operation of the lamp. As such, the disclosure of Arit is not reasonably pertinent to the specific problems in which the inventors were involved. These are completely different purposes than that of the present invention. Thus, contrary to the examiner's conclusion, it is respectfully submitted that the motivations to use the teachings of Arit are not present nor would one of ordinary skill in the art seek to modify the teachings of Bockley with that of Arit since they are directed to different problems.

U.S. Serial No. 10/714,790
Response to Office Action mailed May 18, 2004

Page 8 of 9

The function and purpose of the reflective end coat is now brought out in greater detail in independent claims 1 and 10 by virtue of the use of means plus function claim language. None of the prior art, whether Bockley, Artt, or Kosmatka is concerned with stopping the IR loss at wide angle bulb positions by use of a total reflective end coat. Accordingly, the absence of such a teaching in any of the documents on an individual basis necessarily leads to the conclusion that the combination of the prior art references must also fail.

Moreover, as previously presented, the operation and characteristics of arc discharge and incandescent lamps are not readily transferable to one another. While both types of lamp are broadly considered light sources, these two different types of lamps are not generally considered to be within the same field.

The problems and disadvantages associated with halogen lamps are set out in detail in the present application and include infrared radiation leakage and reduced efficacy during steady state operation of lamps. As mentioned above, the lamp of Artt was developed to have an improved or reduced startup time, as stated in column 1 beginning at line 25. The nature of the problem to be solved by Artt, namely improved starting time of the lamp, does not provide the reason, suggestion or motivation to combine the cited references. That is, the lamp construction disclosed in Artt was not developed to overcome problems and disadvantages such as those of the present application with regard to halogen lamps, i.e., precluding IR loss at wide angle bulb positions.

As such, Applicant's respectfully submit that the subject claims, as presently amended, define over the prior art of record, both individually and in combination.


U.S. Serial No. 10/714,790
Response to Office Action mailed May 18, 2004

Page 9 of 9

All formal and informal matters having been addressed, this application is deemed to be in condition for allowance. Early notice to that effect is requested.

Respectfully submitted,

FAY, SHARPE, FAGAN,
MINNICH & McKEE, LLP


Timothy E. Nauman
Reg. No. 32,283
1100 Superior Avenue, 7th Floor
Cleveland, Ohio 44114-2518
(216) 861-5582